

CERAMIC HEATER-TYPE GLOW PLUG

Abstract

The present invention ~~A ceramic glow plug which prevents~~ the occurrence of damage on a small diameter portion ~~4a~~ which is formed on a rear end portion of a ceramic heater fixed in a metallic outer sleeve ~~8~~. The ceramic heater ~~4~~ is fixed in the metallic outer sleeve ~~8~~ by ~~blazing or the like~~ in a state that a heat generating portion formed on a distal end thereof is exposed to the outside. The rear end portion of the ceramic heater ~~4~~ is positioned inside the metallic outer sleeve ~~8~~, and the small diameter portion ~~4b~~ is formed on the rear end portion. The rear-end small diameter portion ~~4b~~ of the ceramic heater ~~4~~ is connected to an electrode lead-out member ~~(electrode lead-out wire 10)~~ for taking out a positive electrode of a heat generating material. Granulated powder (alumina, for example) ~~18~~ made of inorganic insulating material is filled in around a connecting portion of the ceramic heater ~~4~~ in the metallic outer tube ~~8~~ and the electrode lead-out-wire ~~10~~, and in addition, ~~magnesia 20~~ an insulating material is sealed outside the granulated powder. Thereafter, swaging is performed to bring the ~~magnesia 20~~ insulating material into a highly dense state thus fixing the electrode lead-out wire ~~10~~ and an electrode lead-out rod ~~12~~ in the metallic outer sleeve ~~8~~.